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SAMSUNG

SAMSUNG

SmartDome Camera

SCC-C6405(P)

Owner's Instructions E

Руководствопользователя RU

Instrukcja obsługi PL

Part : AB68-00504D (04)
Printed in China

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Important Safety Instructions

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings, Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding- type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus.

13. Unplug this apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

Safety Precautions

The purpose of this information is to ensure proper use of this product to prevent danger or damage to property. Please be sure to observe all precautions.

* The precautions are divided into "Warnings" and "Cautions" as distinguished below:

Warning: Ignoring this warning may result in death or serious injury.
Caution: Ignoring this caution may result in injury or damage to property.

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Warning instructions alert you to a potential risk of death or serious injury.	**Caution** instructions alert you to the potential risk of injury or damage to property.

Warning

1. Be sure to use only the standard adapter which is specified in the specification sheet.
   Using any other adapter could cause fire, electrical shock, or damage to the product.
2. When connecting the power supply and signal wires, check the external connection terminals before connecting them. Connect the alarm signal wires to the alarm terminals, the AC adapter to the AC power input receptacle, and the DC adapter to the DC power input, making sure that the correct polarity is observed.
   (Connecting the power supply incorrectly may cause fire, electrical shock, or damage to the product.)
3. Do not connect multiple cameras to a single adapter.
   (Exceeding the capacity may cause abnormal heat generation or fire.)
   (A falling camera may cause personal injury.)
4. Securely plug the power cord into the power receptacle.
   (Insecure connection may cause fire.)
5. When installing the camera on a wall or ceiling, fasten it securely and firmly. (A falling camera may cause personal injury.)

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6. Do not place conductive objects (e.g., screwdrivers, coins, and metal things) or containers filled with water on top of the camera. (Doing so may cause personal injury due to fire, electrical shock, or falling objects.)
7. Do not install the unit in humid, dusty, or sooty locations. (Doing so may cause fire or electrical shock.)
8. If any unusual smells or smoke come from the unit, stop using the product. In such case, immediately disconnect the power source and contact the service center. (Continued use in such a condition may cause fire or electrical shock.)
9. If this product fails to operate normally, contact the store of purchase or your nearest service center. Never disassemble or modify this product in any way. (SAMSUNG is not liable for problems caused by unauthorized modifications or attempted repair.)
10. When cleaning, do not spray water directly onto parts of the product. (Doing so may cause fire or electrical shock.) Wipe the surface with a dry cloth. Never use detergents or chemical cleaners on the product, as this may result in discoloration of surface or cause damage to the finish.

Caution

1. Do not drop objects on the product or apply strong shock to it. Keep away from a location subject to excessive vibration or magnetic interference.
2. Do not install in a location subject to high temperature (over 122°F), low temperature (below 14°F), or high humidity. (Doing so may cause fire or electrical shock.)
3. Avoid a location which is exposed to direct sunlight, or near heat sources such as heaters or radiators. (Neglecting to do so may result in a risk of fire.)
4. If you want to relocate the already installed product, be sure to turn off the power and then move or reinstall it.
5. Install in a well-ventilated location.
6. Remove the power plug from the outlet when there is a lightning storm. (Neglecting to do so may cause fire or damage to the product.)

FCC STATEMENT

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and
(2) This device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

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Before Usage

This is a basic instruction manual for the SCC-C6405(P) user.
It contains all the instructions needed to use the SCC-C6405(P) from a simple introduction of the control locations and functions of the SCC-C6405(P) to installation methods in the set up menu.

We recommend all users of the SCC-C6405(P) from the advanced user who has used similar cameras before to the general user to read the instruction manual before using.

The most frequently used feature in the SCC-C6405(P) would be the SCC-C6405(P) Setup Menu.
The SCC-C6405(P) Setup Menu is explained in detailed in "Chapter 3 Setup Menu Overview".

The instructional manual is best used when read from beginning to end, but for users wanting to read only the part they need here are the Chapter summaries.

"**Chapter 1 SCC-C6405(P) Overview**" includes a brief introduction of the SCC-C6405(P), part names and functions, and Switch Settings.

"**Chapter 2 SCC-C6405(P) Installation**" explains the installation procedures of the SCC-C6405(P) and provides preparation and installation environment requirements.

"**Chapter 3 Setup Menu Overview**" presents the structure of the Setup menu for the SCC-C6405(P) including a detailed explanation of the functions performed in each submenu.

"**Appendix SCC-C6405(P) Product Specifications**" contains product specifications of the SCC-C6405(P) in itemized categories.

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Chapter 1 SCC-C6405(P) Overview

In this chapter we will briefly introduce the SCC-C6405(P) and show main functions, locations of control and Switch Setting.

SCC-C6405(P) Introduction

SCC-C6405(P) is a zoom lens built in smart dome camera which provides you with the best monitoring function in connection with CCTV at banks or companies.

The SCC-C6405(P) is a high quality surveillance camera using x22 zoom lens and digital zoom IC, it can catch clear images up to 220 times.

SCC-C6405(P) has a variety of functions such as;
- WDR to cover the full screen irregardless of its brightness,
- COLOR/BW to improve the sensitivity by automatic conversion into the black and white mode at night or in the environment with low illumination,
- White Balance to control the brightness to the illumination,
- Backlight Compensation under spotlight or utmost bright illumination,
- Auto Focus to automatically adjust the focus to the subject movement,
- Privacy zone to hide a specific area for personal privacy, and,
- PAN/TILT for precise control at high speed.

The SCC-C6405(P) uses an Alarm function for alert situations and moving camera in the direction you want, ZOOM-IN and ZOOM-OUT functions can be remote controlled.

* The followings may occur in a camera with built-in zoom.
- When the zoom rate becomes closer to the TELE side, the edges of the screen may become dim.
- When connected to a DVR or an LCD monitor, the screen corners may be obstructed.

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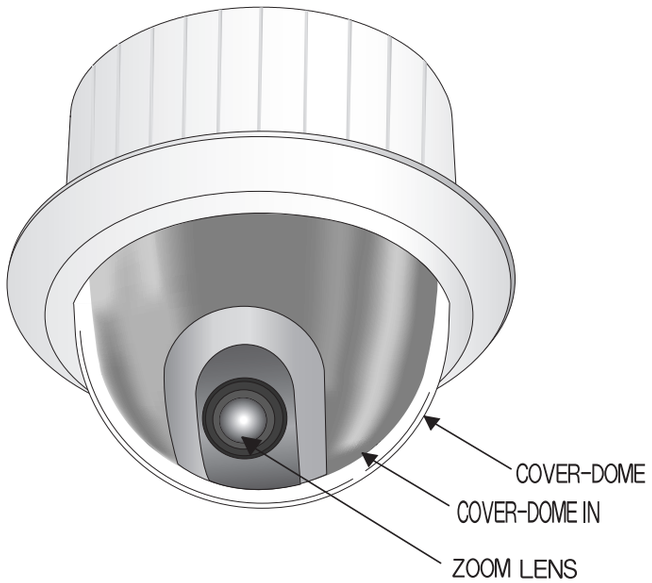
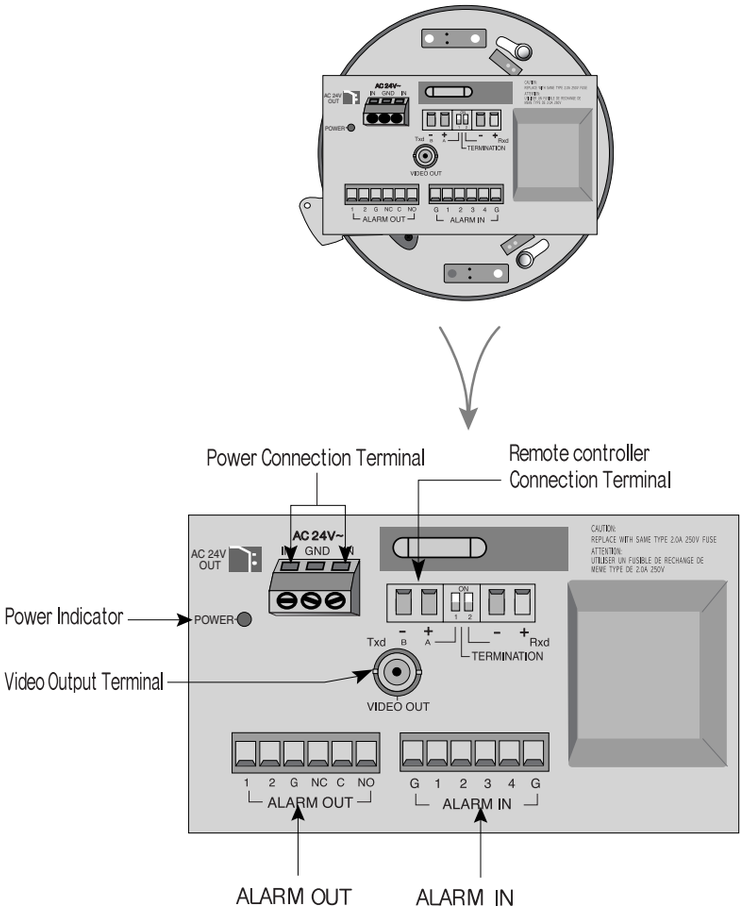
Locations of Control

FRONT



BACK



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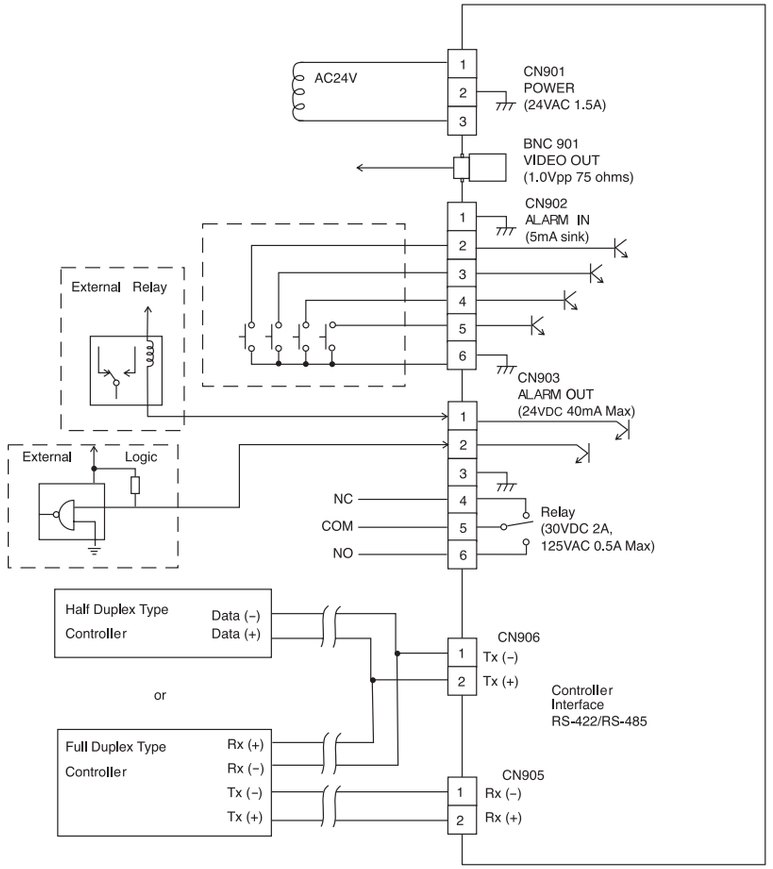
ADAPTER CONNECTION

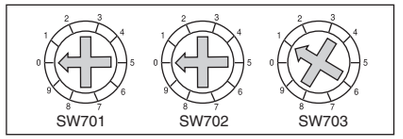
SCC-C6405(P) Adapter BOARD



INITIAL SETTING

CAMERA ADDRESS SETUP

Use SW701, SW702, or 703 for Camera Address setup. You may allocate up to 255 addresses by using SW701 to set the 3rd digit, SW702 the 2nd digit, and SW703 the 1st digit.
EX) In case of Camera Address 1, see the following figure for setup.

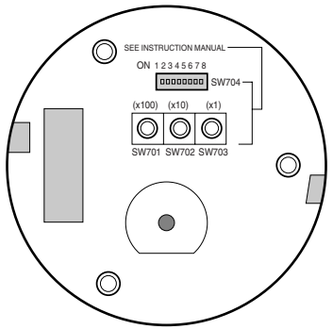


Setting communication Protocol

Use number 1~4 PIN of SW704 to set communication Protocol.

PIN / Comp	PIN1	PIN2	PIN3	PIN4
A	OFF	OFF	OFF	OFF
B	ON	OFF	OFF	OFF
C	OFF	ON	OFF	OFF
D	ON	ON	OFF	OFF
E	OFF	OFF	ON	OFF
F	ON	OFF	ON	OFF
G	OFF	ON	ON	OFF
H	ON	ON	ON	OFF
I	OFF	OFF	OFF	ON
J	ON	OFF	OFF	ON
K	OFF	ON	OFF	ON
L	ON	ON	OFF	ON
M	OFF	OFF	ON	ON
N	ON	OFF	ON	ON
O	OFF	ON	ON	ON
P	ON	ON	ON	ON

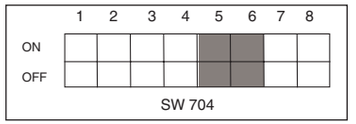
A : SAMSUNG HALF
B : SAMSUNG FULL



(BOTTOM VIEW)

Baud Rate Setting

Use PIN 5 and 6 of SW704.



BAUD RATE	PIN 5	PIN 6
4800 BPS	ON	ON
9600 BPS	OFF	ON
19200 BPS	ON	OFF
38400 BPS	OFF	OFF

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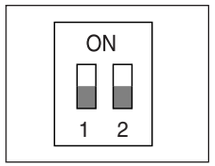
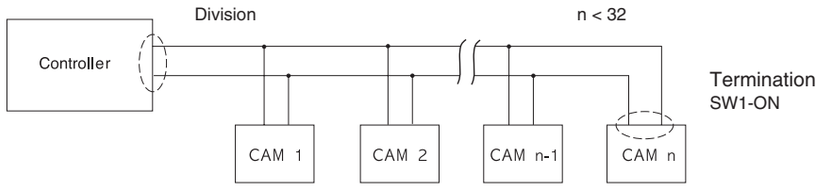
Setting RS-422A/RS-485 termination

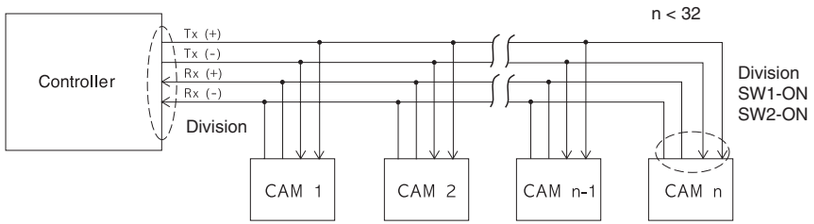


As it is shown in the structure map, when Controller and RS-422A/RS-485 is connected it should be terminated according to the Cable feature of impedance on the each end of the transmitting line to transfer the signals in long distance by controlling the reflection of the signals to the lowest.



<RS-485 Half Duplex Organization>

Termination: using numbers 1 and 2 PIN, turn to ON and it will be terminated.



<RS-422A/RS-485 Full Duplex Organization>

Chapter 2 SCC-C6405(P) Installation

In this chapter, we will check the contents of the package before installing the SCC-C6405(P), and prepare a power adapter suitable for the power supply system.
(Power Consumption: 18W; Voltage: AC24V, 1.5A)
Then, we will install the SCC-C6405(P) and connect the cables.

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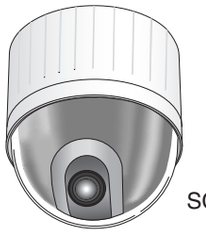
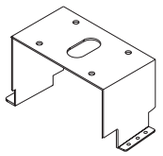
Before Installing

Checking Package Contents

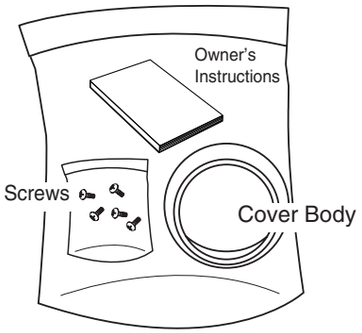
Please check that all components listed below are included in the package:

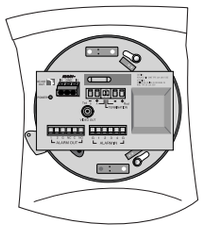


SCC-C6405(P)



Bracket anchor





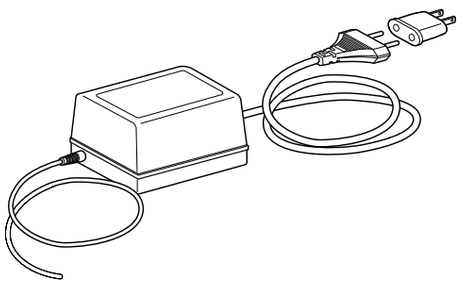
Camera Holder
Adapter Board

Preparing the Cables

To install and use the SCC-C6405(P), the following cables should be prepared.

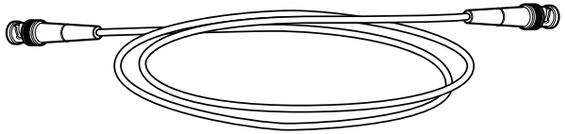
Power Adapter Cable

The cable that plugs into the SCC-C6405(P) power input receptacle has the rated voltage of AC24V, 1.5A.
Check the rated voltage before using the cable.



Video Cable

The SCC-C6405(P)'s cable is a BNC Cable for connecting the video-output terminal to the video-input terminal of the monitor.



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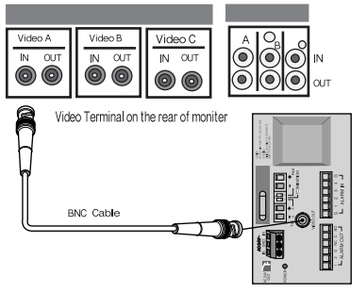
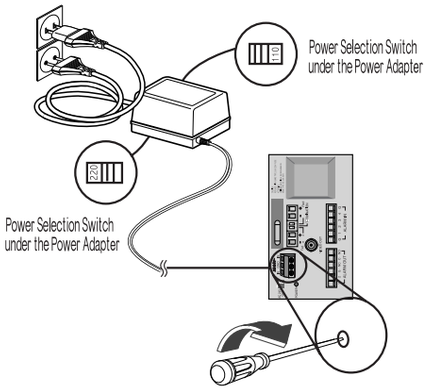
Cable Connection

1. First, connect one end of the BNC video cable connector to the Video Output Terminal (VIDEO OUT)

2. Then, connect the other end of the connector to the Video Input Terminal of the monitor.

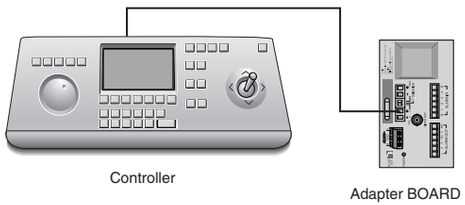


3. Now connect the Power Adapter Cable. Use a driver to screw one part of the two lines of Power Adapter to Power Input Terminal of the SCC-C6405(P).



4. Adjust the switch below the Power Adapter to the proper voltage. Then, connect the Power Adapter's plug to the Power Connector.

5. Connect the Remote Control Terminal of the SCC-C6405(P) and the external Controller.



Installing SCC-C6405(P)

Installation Precautions

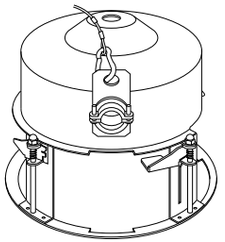
1) Make sure that the installation site can sufficiently support a minimum of four times the net weight of the SCC-C6405(P) SmartDome Camera and other accessories.
2) Install in an area where the space above the ceiling board is over 18 cm (7 in.) high.
3) Use the supplied screws to fasten the camera to the bracket assembly.
4) Keep persons away from the installation area, as there is a risk of falling objects.
   Also, move valuables to a safe location before installation.

Separately Sold Products for Installation

Depending on the installation site, it may be convenient to use one of the following products.

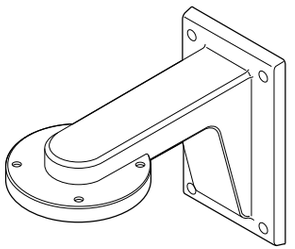
1) CEILING MOUNT BRACKET (SBR-100DCM)

   This bracket is used for installing the SmartDome CAMERA in the plenum above the drop ceiling.



2) WALL MOUNT ADAPTOR (SADT-100WM)

   This adaptor is used for installing the indoor housing or the outdoor housing for the SmartDome Camera on a wall.



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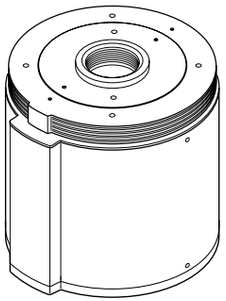
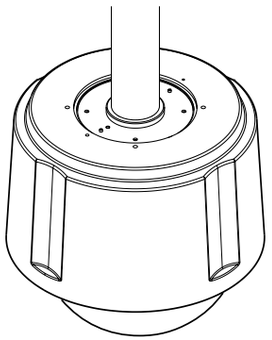
3) INDOOR HOUSING (SHG-120)

This housing is used for installing the SmartDome Camera to an indoor wall or a ceiling.



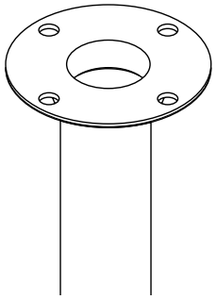
4) OUTDOOR HOUSING (SHG-220)

This housing is used for installing the SmartDome Camera to an outdoor wall or a ceiling.



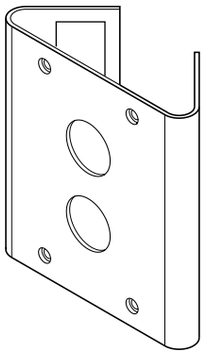
5) CEILING MOUNT ADAPTOR (SADT-100CM)

This adaptor is used for installing the indoor housing or the outdoor housing for the SmartDome Camera to a concrete ceiling.



6) POLE MOUNT ADAPTOR (SADT-100PM)

This adaptor is used for installing the WALL MOUNT ADAPTOR (SADT-100WM) to a pole that is over 8 cm (2.76 in.) in diameter.



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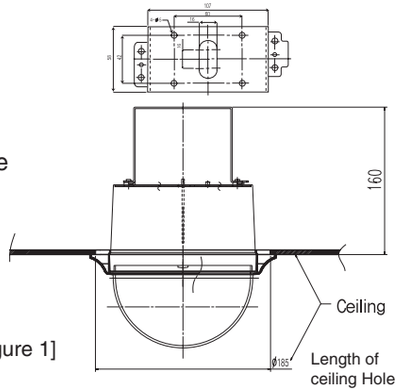
Installing the Camera

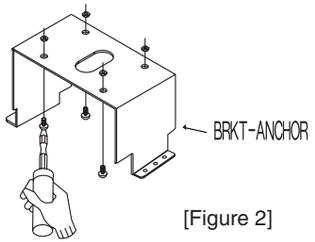
1. [Figure 1] Install the structure on the ceiling.
   (Refer to Installation reference for the Length of the structure)
   * Built in by the builder of the structure



[Figure 1]

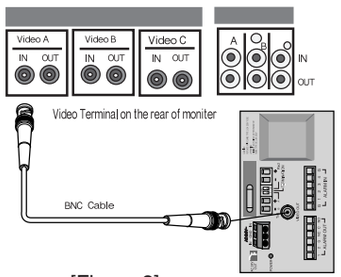
2. Make a hole in the ceiling where the camera will be installed.
   (The hole should be about ø185)

3. [Figure 2] Assemble the BRKT-ANCHOR on the ceiling and screw the 4 bolts in.

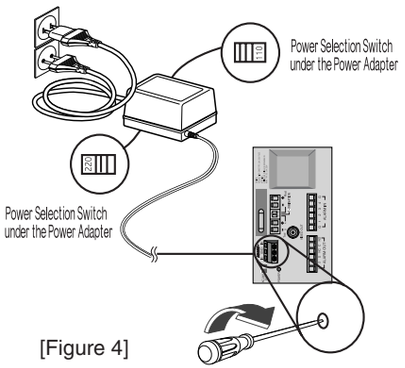


[Figure 2]

4. [Figure 3,4] Connect the various cables to the CAMERA ADAPTER.
   (See page 2-4)

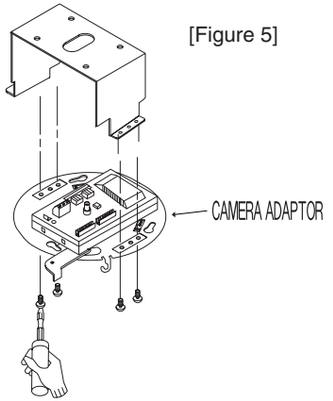


[Figure 3]



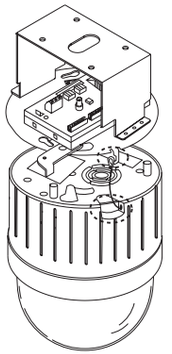
[Figure 4]

5. [Figure 5] Match the BRKT-ANCHOR and CAMERA ADAPTER and use 4screws (PH M4 x 8) to assemble them.



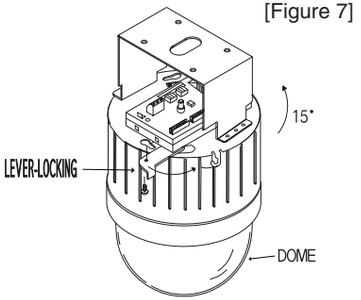
[Figure 5]

6. Pull the safety wire from the case body, and assembly it to the camera holder.



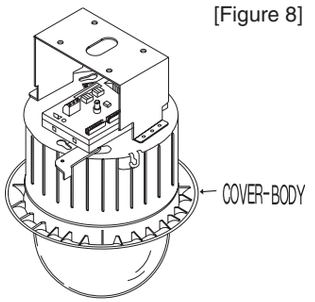
[Figure 6]

7. [Figure 7] Match the 3 holes on the back of the CAMERA and the CONNECTOR and turn it left about 15 degrees.
   (Check the sound of LOCKING and that the LEVER-LOCKING is in place)
   * Use the screws (BH M3 x L8) to connect the CAMERA and the ADAPTER so they don't move.



[Figure 7]

8. [Figure 8] Assemble the COVER-BODY onto the DOME.



[Figure 8]

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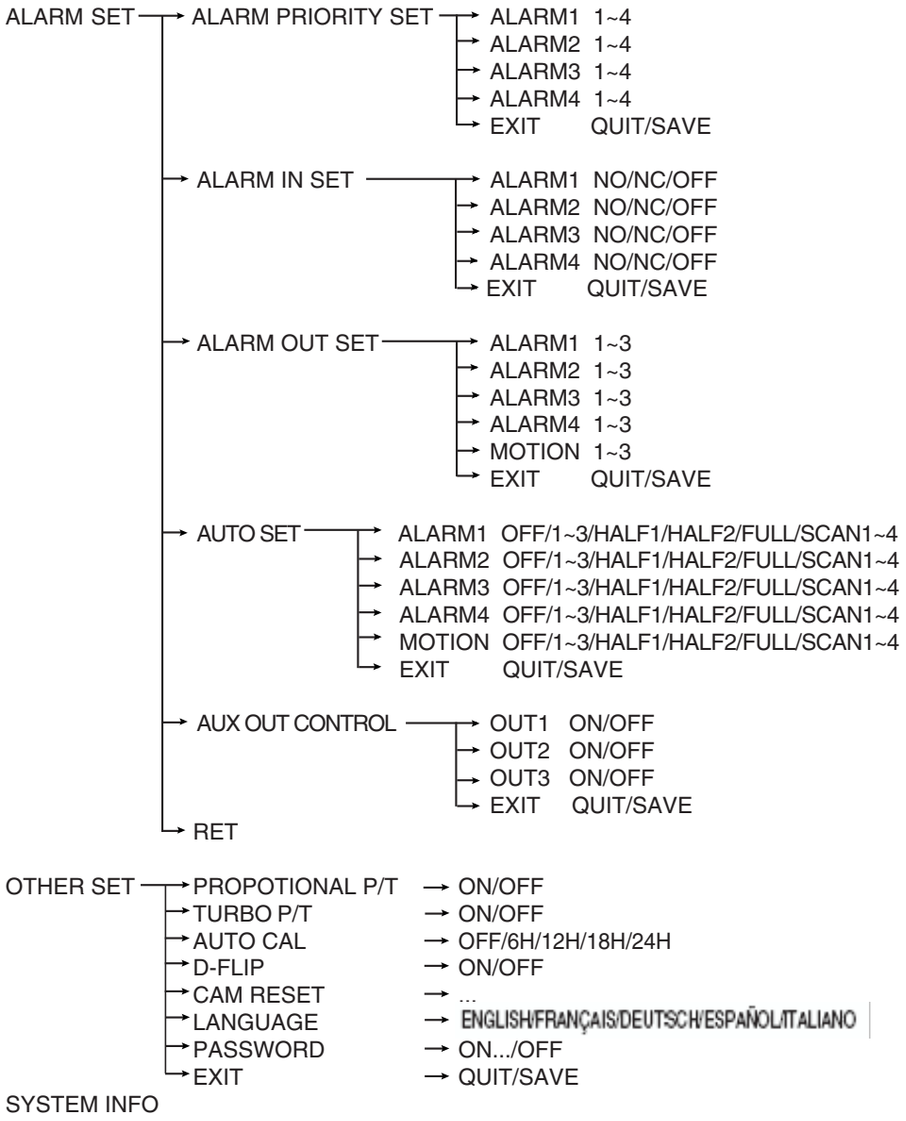
Chapter 3 Setup Menu Overview

In this chapter, we will look over the Setup Menu of the SCC-C6405(P), First we'll look over the overall structure of the Setup Menu, and then we'll look at the functions of each menu.

Structure of the Setup Menu

- CAMERA SET
  - CAMERA ID → ON.../OFF
  - V-SYNC → INT/LINE...
  - COLOR/BW → COLOR/BW.../AUTO...
  - MOTION DET → ON.../OFF
  - ZOOM SPEED → 1/2/3/4
  - DIGITAL ZOOM → OFF/X2~X10
  - EXIT → QUIT/SAVE/PRESET
- VIDEO SET
  - IRIS → ALC.../WDR...
  - SHUTTER → OFF/1/100(1/120)~1/1OK/AUTOX2~X160
  - AGC → OFF/LOW/HIGH
  - MOTION → S.SLOW/SLOW/NORM/FAST/F.FAST
  - WHITE BAL → ATW1/ATW2/AWC/MANU...
  - DIS → ON/OFF
  - FOCUS MODE → AF/MF/ONEAF
  - SPECIAL → ...
    - REVERSE → OFF/H/V/H/V
    - DETAIL → (0)I---
  - EXIT → QUIT/SAVE/PRESET
- PRESET
  - POSITION SET → ...
  - PRESET ID → ON.../OFF
  - VIDEO SET → ON.../OFF
  - PRESET SPEED → 1~8
  - DWELL TIME → 1~60S
  - IMAGE HOLD → ON/OFF
  - EXIT → QUIT/SAVE/DEL
- ZONE SET
  - PRIVACY ZONE → ...
  - ZONE DIR SET → OFF/ON...
  - ZONE AREA SET → OFF/ON...
  - EXIT → QUIT/SAVE
- AUTO SET
  - AUTO PAN → 1.../2.../3.../4...
  - PATTERN → 1.../2.../3...
  - SCAN → 1.../2.../3.../4...
  - AUTO PLAY → ...
  - RET

E



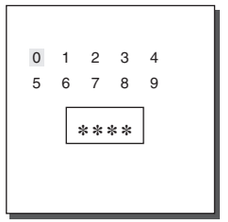
The diagram shown above illustrates the overall structure of the Setup Menu. In this section, a description of the Setup menu features will enable users of the SCC-C6405(P) to tailor it to their personal needs.

❊ If the power is turned off after PRESET, AUTO PAN, SCAN, PATTERN function is activated and no other control is made, camera will do the same function after the power is turned on.

❊ Menu setting is available only when tilt position is under 90°. When tilt position is over 90° and menu-on command is received, pan will automatically rotate 180° and tilt will be move to the corresponding position.

Use the controller to press the MENU selection key and the following screen will be displayed.

① PASSWORD UNDEFINED



② PASSWORD DEFINED

In case of ①, use UP/DOWN/LEFT/RIGHT/[ENTER] key for MENU setup. In case of ②, type in the 4 digit password first. If correct, the MENU selection screen like ① will be displayed and you will be able to set up MENU by pressing UP/DOWN/LEFT/RIGHT/[ENTER] key.

1. CAMERA SET MENU

CAMERA ID

The CAMERA ID menu assigns an ID to the SCC-C6405(P) to be displayed on the connected monitor.On the CAMERA SET menu screen, select CAMERA ID to ON and press [Enter]. You will see the sub screen for deciding on the ID of the SCC-C6405(P). The Camera ID can have up to 20 alphanumeric characters, along with several special characters. The assigned camera ID may be positioned to any desired location on the screen by using the LOCATION submenu.

* " ... " Means there are Sub Menus.

V-SYNC

In the V-SYNC menu, vertical synchronization can be selected. The vertical synchronization signal supported by the SCC-C6405(P) is the INT mode made by clock inside the SCC-C6405(P) and LINE mode adjusting vertical synchronization to the exterior power frequency.

Select LINE and press [Enter]. You will see the LINE LOCK submenu where you can adjust the phase of the LINE LOCK.
You can use the PHASE menu of the LINE LOCK submenu to assign as much PHASE as you want.

COLOR/BW

In the COLOR/BW menu, you can switch ON or OFF the IR (infrared) Filter.
In a poor illumination environment, the IR filter is turned off in the BW mode the its sensitivity increases as high as a black and white camera. On the other hand, the IR filter is turned on and the sensitivity decreases in the COLOR mode.

COLOR : The IR Filter is ON and the screen is normal.

BW : The IR Filter is OFF and the screen is black and white.
(Sensitivity to low light is increased to a level comparable to a black and white camera.)
Select BW and press [ENTER] and the additional menu to select BURST ON/OFF will appear.

AUTO : Select to automatically switch between the COLOR mode and BW mode depending on the amount of light. In low light conditions, the IR Filter is turned OFF and the sensitivity to low light is increased by switching to the BW mode, but in bright light conditions, the IR Filter is turned ON and the sensitivity is decreased by switching to the COLOR mode.
Select AUTO and press [ENTER] and the additional menu to select BW LEVEL and DURATION will appear.

- BURST ON : The color burst signal is output together with black and white composite video signal.

- BURST OFF : The color burst signal is not output.

- LEVEL : You can set the brightness level that changes from COLOR mode to BW mode in 3 steps : LOW, MEDIUM, and HIGH.

- DURATION : Set the HOLDING time for switching between COLOR and BW mode depending the changes in the amount of light. You can set the HOLDING time to 10sec (S), 30sec, 60sec, or 300sec(L).

In AUTO mode, AGC will operates in high speed mode, and you cannot change it manually, as it is indicated by "---".

Caution : If you use an infrared light source while in AUTO mode, AUTO switching malfunction and camera AF malfunction may occur.

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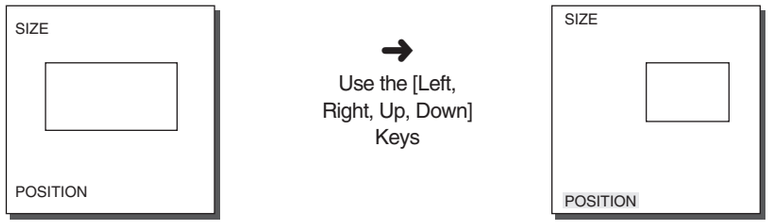
MOTION DET

In MOTION DET, you can set the Motion Detection function, Motion Detection Sensitivity, and the Area of Motion Detection. If the Motion Detection function is set, the movement of an intruder can be detected. When motion is detected, it sets off the Alarm signal of the Controller.

Select ON and press [ENTER] and the MOTION DET additional menu will appear. The AREA menu, selecting the screen area where the MOTION detection function will be applied may be selected by PRESET or USER.
Set AREA to PRESET and the MOTION detection function will be applied to the factory default part.
If you set the AREA menu to USER and press [ENTER], you may vary the size and position of the area where you want to apply the MOTION detection function by yourself. Press Left, Right, Up, or Down to select an area size.
Press ENTER and then Left, Right, Up, or Down to select a position. Press ENTER again to move back to the upper menu.
Use [ENTER] and Left, Right, Up, or Down to move and scale the MOTION detection area.
Press [ENTER] again and you will escape the AREA setup menu.
Use SENSITIVITY to set up the sensitivity of MOTION detection strength.
The higher, the more sensitive.



After PAN/TILT movement finishes, MOTION DET function will not work for about 5 seconds to stablize the chage of the screen.

* MOTION detection function operates based on the brightness change within the setup region. Therefore, erroneous operation may occur depending on the brightness difference between the background and the object that is being taken, or the status of the area setup, etc.

ZOOM SPEED

In the ZOOM SPEED menu you can select the speed of the ZOOM Key (Tele/Wide).
Use the [Left] or [Right] keys in the ZOOM SPEED menu to select the speed.
1 : Slowest speed
2 : Low speed
3 : High speed
4 : Fastest speed

DIGITAL ZOOM

You may set up the digital zoom magnification ratio in the DIGITAL ZOOM menu. The magnification ratio ranges from OFF to 10. If you set Digital Zoom of SCC-C6405(P) to max. 10 times, the mode will become the 22 time optical zoom and you will be able to enlarge a subject by max. 220 times.
Use Left or Right to select a magnification ratio in the DIGITAL ZOOM menu.

EXIT

The EXIT menu is used to quit the CAMERA SET menu of the SCC-C6405(P) and return to the MAIN MENU.
- QUIT : Ignores the changed information and restores the saved information.
- SAVE : Saves the information of the setting condition of the menu.
- PRESET : Ignores the changed information and restores the initial factory defaults of the menu.

2. VIDEO SET MENU

IRIS

There is a function to automatically adjust IRIS to the incoming light level. Owing to this function, you may set up the brightness level yourself.
The ALC(Auto Light Control) menu allows you for video output level setup.
The WDR(Wide Dynamic Range) menu allows you to set up the WDR level and the FLICKERLESS function.

ALC

Choose the ALC of the IRIS item and press [ENTER] and set he submenu to the Video Output level and BLC will be shown.The Video Output Level can be set in the level item using the [Left, Right] keys.

BLC (Submenu of the ALC menu)

With conventional cameras, strong background lighting interferes with the clarity of objects, making them appear dark. In the SCC-C6405(P), setting the BLC (Back Light Compensation), submenu of ALC/MANU menu, will solve the problem of backlight and give you a clear screen.
Set the BLC menu to ON and the Backlight Compensation function will be applied to the screen.

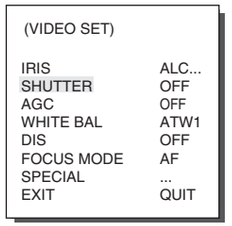
WDR

The WDR camera is a state-of-art technology to expand the screen profit, mostly effective when you photograph both indoor and outdoor. In short, this function provides you with the distinct reproduction of not only the indoor but also the outdoor. Press [ENTER] to set up the WDR level and the FLICKERLESS function.

- LEVEL 1 : Controls the shutter speed while WDR operates.
- LEVEL 2 : Controls the whole brightness while WDR operates.
- FLIKERLESS : This is for preventing flicker on the screen when NTSC system is used in 50HZ power supply region and PAL system is used in 60HZ power supply region. That is to prevent shaking on the screen resulted from the discordance of the vertical sync frequency and the flicker frequency of the illumination. While this menu is ON, the electronic shutter is fixed to 1/100sec (NTSC) or 1/120 sec (PAL).

SHUTTER

You may designate both the fast electronic shutter speed and low electronic shutter speed in the SHUTTER menu. The fast electronic shutter supports 7 shutter speeds from 1/100(1/120) to 1/10K second to be used for the bright and fast video image. The AUTO slow electronic shutter supports 10 shutter speeds from x2 to x160 and sets the shutter speed to be slow In order to make the image on the screen more distinct and brighter when you photograph under dark illumination. If you want to sense the light brightness to control the shutter speed to the brightness automatically, select the AUTO slow shutter.



Keep pressing both Left and Right in the SHUTTER menu, the speed will change in the following sequence.
OFF → AUTO X2 → AUTO X4 → AUTO X6 → AUTO X8 → AUTO X12 → AUTOX16 → AUTO X20 → AUTO X40 → AUTO X80 → AUTO X160 → OFF → 1/100(1/120) → 1/250 → 1/500 → 1/1000 → 1/2000 → 1/4000 → 1/10K → OFF

❉ In case the IRIS mode is set to WDR, only the following modes are available.
OFF → AUTO X2 → AUTO X4 → AUTO X6 → AUTO X8 → AUTO X12 → AUTOX16 → AUTO X20 → AUTO X40 → AUTO X80 → AUTO X160 → OFF

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AGC

The AGC menu was designed to provide you with brighter screen supposed you photographed any subject in the dark resulting in less brighter image than regulated. AGC menu setup is available only when the SHUTTER menu is set to Fast Shutter or Off. Press either Left and Right to go to LOW or HIGH and the AGC function will be activated. LOW is use to lower the maximum AGC GAIN and HIGH raise the maximum AGC GAIN.
When the COLOR/BW menu of the camera set is set to AUTO, the AGC menu item is left dotted and the maximum AGC GAIN is fixed to HIGH.

(VIDEO SET)	
IRIS	ALC...
SHUTTER	OFF
AGC	LOW
WHITE BAL	ATW1
DIS	OFF
FOCUS MODE	AF
SPECIAL	...
EXIT	QUIT

MOTION

The MOTION function is available only when the SHUTTER men is set to Slow Shutter AUTO, being composed of 5 steps, S.SLOW, SLOW, NORM, FAST, F.FAST.

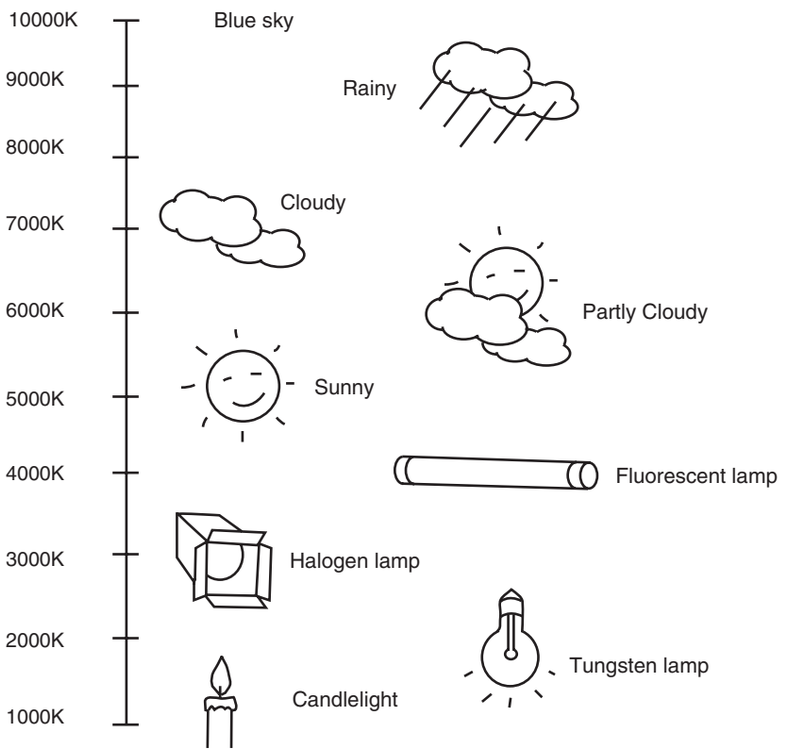
- S.SLOW reduces the amount of AGC as much as possible to monitor subjects with no immobility in the dark.
- SLOW reduces the amount of AGC to monitor subjects with little immobility in the dark.
- NORM sets the amount of AGC to the middle to monitor mobile subjects in the dark.
- FAST raises the amount of AGC to monitor fast subjects in the dark.
- F.FAST reduces the amount of AGC as much as possible to monitor very fast subjects in the dark.

When the SHUTTER menu is set to AUTO, press Down to locate the cursor in the MOTION menu and press Left and Right for MOTION function setup. Press Left to the SLOW side and Right to the FAST side.

(VIDEO SET)	
IRIS	ALC...
SHUTTER	AUTO x2
MOTION	F.FAST
WHITE BAL	ATW1
DIS	OFF
FOCUS MODE	AF
SPECIAL	...
EXIT	QUIT

WHITE BAL

Lights are generally denoted as color temperatures and expressed in Kelvin (K) units.
The general light color temperatures are shown below.



You can select one of four modes for white balance adjustment as follows:

- ATW1/ATW2(Auto-Tracing White Balance Mode): In these modes, the color temperature is monitored continuously and thereby white balance is set automatically. The following are the approximate supported color temperature ranges in these modes.
  ATW1 : 2500K ~ 9300K(*1)
  ATW2 : 2000K ~ 10000K(Mode recommended for sodium lighting)(*2)
  *1. If the color temperature is out of this range in ATW1 mode, proper white balance may not be obtained. In that case, select ATW2 mode.
  *2. In ATW2 mode, if one color is dominated in the shooted area, the color can be displayed differently.
  Therefore, select the mode which is appropriate for the environment.
- AWC(Auto-Tracing White Balance Control): In this mode, accurate white balance is obtained by pressing [ENTER] while having a white paper in front of the camera. White Balance data will be maintained after set it once. AWC mode is best in locations where the color temperature of light source is constant.
- MANU : If WHITE BAL menu is set to MANU mode, the user can set the white Balance considering the current illumination. Select MANU item and press [ENTER], the sub screen where you can select Manual White Balance will be shown. Use the left/right keys to select 3200K, 5600K or OFF(USER) mode in the PRESET menu.
  - 3200K : Set color temperature to 3200K
  - 5600K : Set color temperature to 5600K
  - USER : Choose out a proper value from the RED and BLUE graph for color and temperature setup.

DIS

The DIS(Digital Image Stabilization) function compensates the camera screen shaking incurred from vibration.

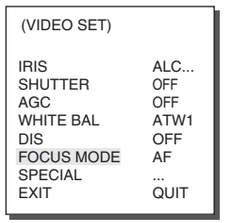
It is recommended to deactivate the DIS function in the no vibration environment.

FOCUS MODE

In the FOCUS MODE MENU, the Focus method can be set to AF, MF, or ONEAF.

- AF : With AUTO FOCUS MODE, you can monitor the screen continuously and it will focus automatically. While moving the zoom keys, it will automatically focus so FOCUS key input is not necessary.
- MF : In MANUAL FOCUS MODE the user adjusts the Focus manually.
- ONEAF : The ONEAF Mode performs Auto-focusing only when the SCC-C6405(P) stops after moving and when the SCC-C6405(P) is not moving it is same as MF mode.
  (The ONEAF Mode does not work when zooming out.
  ❇ When in the MF/ONEAF Mode, press the NEAR and FAR keys on the Controller (SSC-1000/SSC-2000) at the same time to perform AUTO FOCUS.)

Use the left/right keys to select AF, MF or ONEAF in the FOCUS MODE menu.



SPECIAL

You may control REVERSE or DETAIL by yourself in the SPECIAL menu.

- REVERSE : Mirrors the screen horizontally, vertically, or in all directions.
- DETAIL : Controls both horizontal and vertical distinction.

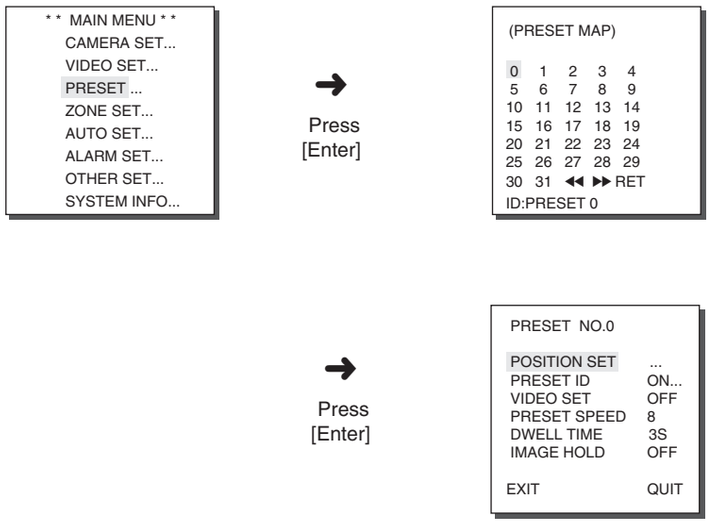
EXIT

It's the same as the EXIT function of the CAMERA SET menu.

E

3. PRESET

This is the menu that user sets the PAN/TILT location, Zoom/Focus, and screen condition, so the camera can monitor the presetting area on demand. A total of 128 presets are available.
Among the 128 PRESETS, PRESET 1: ALARM1, PRESET 2: ALARM2, PRESET 3: ALARM3, PRESET 4: ALARM4,PRESET 5: set as special preset corresponding MOTION.



❊ Set the PRESET position at the TILT which ranges from 0° to 90°. Beyond this range, PRESET setup is not available.

❊ When you try to set the Preset position by using the Controller(SCC-1000 or SCC-2000) beyound the range of TILT 90°, the text, “SET AGAIN” will be displayed. In such a case, please retry in the area below TILT 90°.

POSITION SET

From "POSITION SET..." press [ENTER] to get into the PAN/TILT, FOCUS/ZOOM SET screen
to set the PAN/TILT location and FOCUS/ZOOM condition then press [ENTER] to return to a higher menu.

PRESET ID

This is the ID set up function for each PRESET.
It can be set up to 12 characters using the left, right, up, and down keys.
The ID location can be set in the submenu of "LOCATION..."

VIDEO SET

This is the screen setting function for each PRESET.
Refer to the explanation under "VIDEO SET menu".

PRESET SPEED

This function sets up the speed of PAN or TILT by 8 steps from 1(SLOW) to 8(FAST).
- PRESET SPEED 1 : Maximum PAN moving speed of 240°/sec
- PRESET SPEED 8 : Maximum PAN moving speed of 400°/sec

DWELL TIME

This is a function setting for the DWELL TIME of the PRESET location in "SCAN" motion. It can set DWELL TIME From 1 ~ 60 Sec.

IMAGE HOLD

Pauses the image when PRESET is in movement, If you set the IMAGE HOLD menu to ON, the screen will be paused until PRESET finishes moving.

EXIT

"QUIT" : Does not save the selected information and returns to a higher menu.
"SAVE" : Do saves the selected information and returns to a higher menu.
"DEL" : Deletes the selected information and restores the DEFAULT. Then returns to a higher menu.

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4. ZONE SET

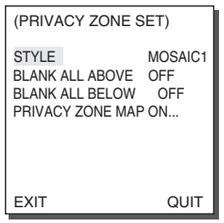
The ZONE SET menu includes the setup of PRIVACY ZONE, ZONE DIRECTION, and ZONE AREA.

PRIVACY ZONE

Move PAN/TILT/ZOOM to select an area that can infringe someone privacy, then this function will hide the area if it can be involved in the photograph to protect his privacy. The number of area reaches up to 12.

STYLE

In the STYLE menu, you may the shape of the PRIVACY ZONE area on the screen.
- MOSAIC1 : The privacy zone is displayed with the mosaic of 16 X 16 pixel.
- MOSAIC2 : The privacy zone is displayed with the mosaic of 32 X 32 pixel.



❊ Set to the PRIVACY ZONE section, the mosaic screen will not be

BLANK ALL ABOVE

The available angle for setup ranges from OFF/0/-10 to -90 and the area above a set angle will be regarded as the ZONE area.

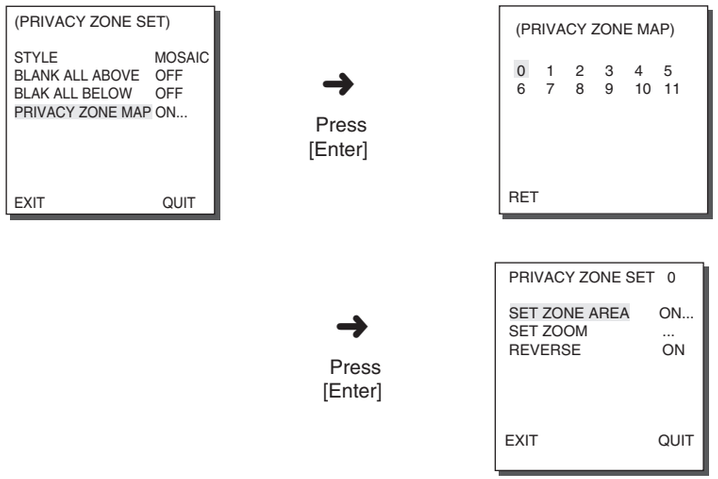
BLANK ALL BELOW

The available angle for setup ranges from OFF/0/-10 to -90 and the area below a set angle will be regarded as the ZONE area.

PRYVACY ZONE MAP

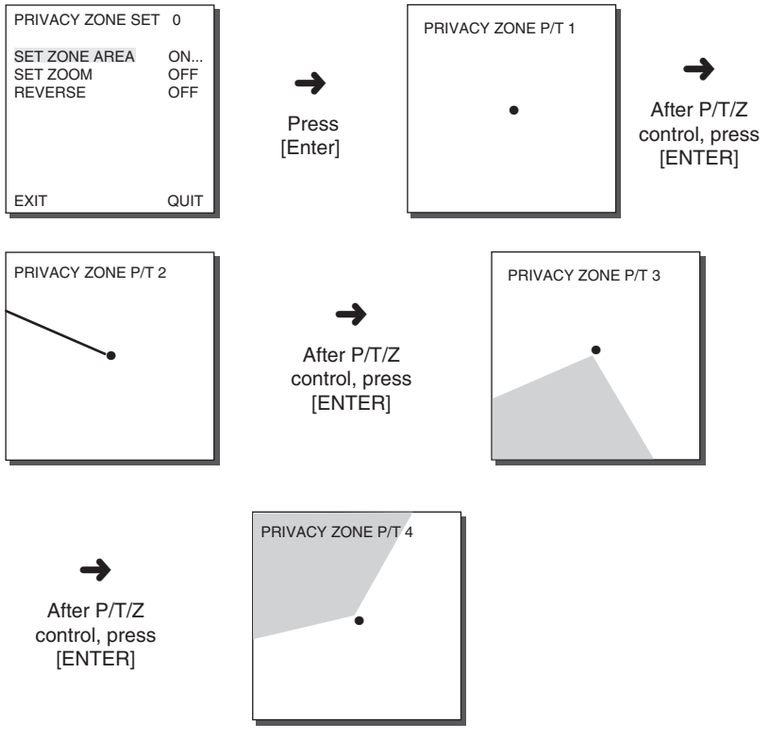
Press [ENTER] to enter the PRIVACY ZONE MAP screen from “PRIVACY ZONE MAP ON..”.

Select a privacy zone number and press [ENTER] from the PRIVACY ZONE MAP screen to enter the PRIVACY ZONE setup screen.



SET ZONE AREA

Press [ENTER] at the “SET ZONE AREA...” position to enter the PRIVACY ZONE setup screen. Control PAN/TILT/ZOOM to select 4 apexes of the PRIVACY ZONE area and the rectangular PRIVACY ZONE area will be completed.



❉ For the safer privacy protection, select about 10 % more than the actual size to hide when you set up the PRIVACY ZONE area.

❉ 4 points of PRIVACY ZONE area are in the middle of the screen. Therefore, when the tilt is positioned at upside limit(0° or 180°), PRIVACY ZONE cannot be set in the area which is displayed above center.

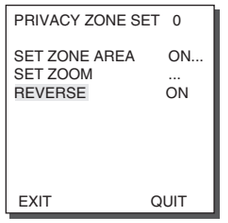
❉ If the points becomes X shape, it means PRIVACY ZONE cannot be set due to the size limitation.

SET ZOOM

Press [ENTER] at the “SET ZOOM...” position to enter the ZOOM setup screen. After ZOOM setup, the PRIVACY ZONE function will be in action only at the higher magnification than the Zoom magnification as set.

REVERSE

The REVERSE function applies PRIVACY MASK to the other area than set as a privacy zone. ON/OFF is available.



EXIT

"QUIT" : Does not save the selected information and returns to a higher menu.
"SAVE" : Do saves the selected information and returns to a higher menu.
"DEL" : Deletes the selected information and restores the DEFAULT. Then returns to a higher menu.

ZONE DIR SET/ZONE AREA SET

This function indicates the ID or direction depending on the set value when PAN of SCC-C6405(P) is located in a specific area. If set to AREA, it indicates the ID of the selected area and if set to N(NORTH), NE(NORTH-EAST), E(EAST), SE(SOUTH-EAST), S(SOUTH), SW(SOUTH-WEST), W(WEST), NW(NORTH-WEST.

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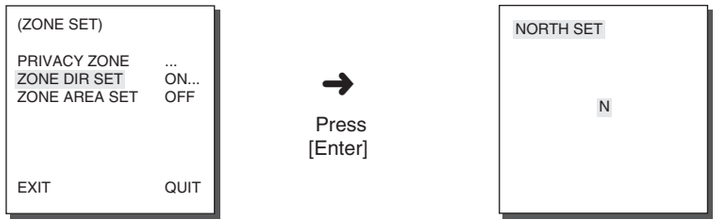
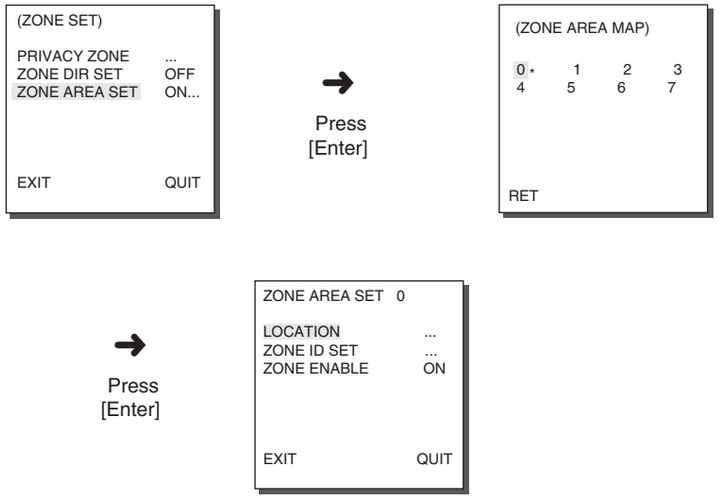
ZONE DIR SET

Press the [Enter] key in the “ZONE DIR SET ON…” mode to enter the NORTH SET screen. MAP. Move PAN to set the NORTH position and press [ENTER]. Based on the North position,the direction of N(North), NE(North-East), E(East), SE(South-East), S(South), SW(South-West), W(West), NW(North-West) is displayed whenever you move PAN.



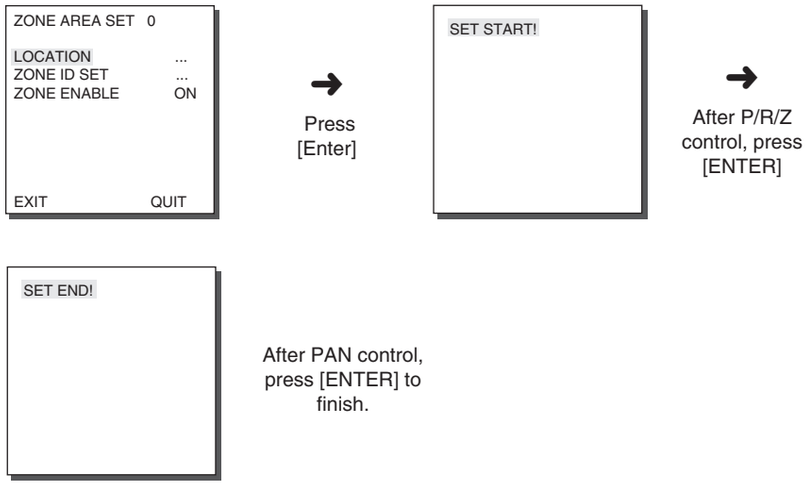
ZONE AREA

Press [ENTER] to enter the ZONE AREA MAP screen from “ZONE AREA SET...”. Select a ZONE AREA number from the ZONE AREA MAP screen and press [ENTER] to enter the ZONE AREA setup screen.



LOCATION

The “LOCATION...” menu designates the left/right LIMIT positions of ZONE AREA. Enter the setup screen to move PAN, then select a start position and press [ENTER]. Move PAN again
to select a end position and press [ENTER]. Now, ZONE AREA setup is complete.



ZONE ID SET

This function is used to allocate as many as 12 IDs to each zone area. Use Left , Right, UP, or DOWN for this purpose. You may select the ID position from the additional menu of “LOCATION...”.

ZONE AREA SET 0
LOCATION ...
ZONE ID SET ...
ZONE ENABLE ON
EXIT QUIT
Press
[Enter]
ZONE AREA ID 0
A B C D E F G H I J K L
M N O P Q R S T U V W X
Y Z 0 1 2 3 4 5 6 7 8 9
: ! - + * ( ) /
SP ▶▶ ◀◀ SP
LOCATION...
RET
ZONE 0.....

ZONE ENABLE

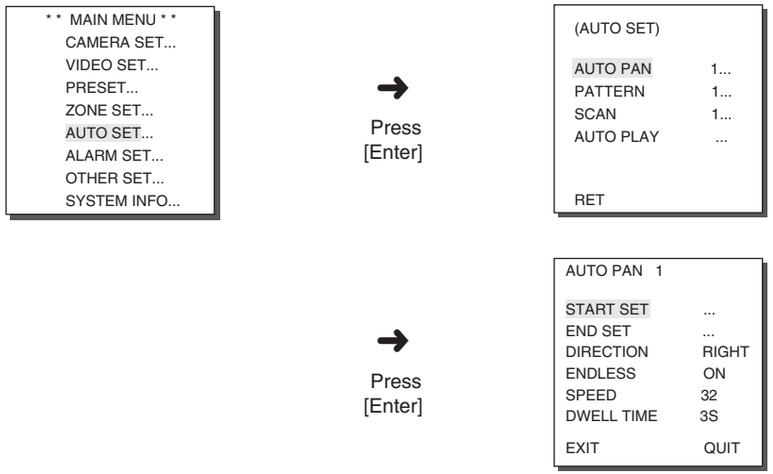
This function turns on or off the ZONE AREA ID indication.

5. AUTO SET

The AUTO SET menu includes AUTO PAN, PATTERN, and SCAN and it is able to set up the AUTO PLAY motion.

AUTO PAN

After selecting the locations of two points (PAN/TILT) of START and END, it loops continuously in the set up SPEED. The number of AUTO PAN is up to 4.



START SET

From "START SET...", get into the START SET setup screen by pressing [ENTER].
After selecting the locations of PAN/TILT location, press [ENTER] again to return to higher menu.

END SET

From "END SET...", get into the END SET setup screen by pressing [ENTER]. Adjust PAN/TILT location and press [ENTER] to return to a higher menu.

DIRECTION

This sets up the movement direction of the START to END location (PAN location standard)

"RIGHT " : "LEFT " :

ENDLESS

This is a 360-degree rotation function that stops for the DWELL TIME only in the START and END positions without running between the START and END positions. It can be set to "ON" or "OFF".

SPEED

This is a setting function for movement speed setup. It can be set from STEP1 to STEP64.

DWELL TIME

This is a function for setting up the time to stay in the START to END position.

PATTERN

This is a replay function so that the MANUAL functions such as PAN, TILT, ZOOM, and FOCUS are played for 2 minutes.

- ❉ When the PATTERN is saved/executed, the PAN/TILT is operated with PROPORTIONAL ON, TURBO OFF.
- ❉ Two minutes PATTERN function is supported only by the ALARM VER 1.100 over. If the SSC-1000 or SSC-2000 is used when uploading/downloading the menu setup, reset the PATTERN because it may be different with the first setting.

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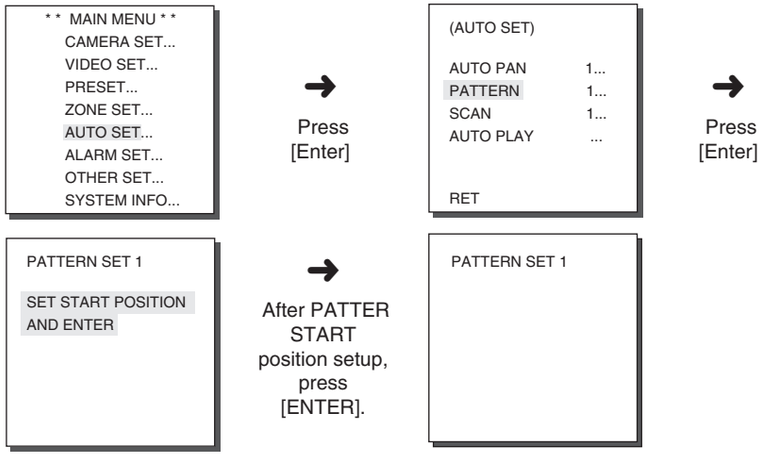
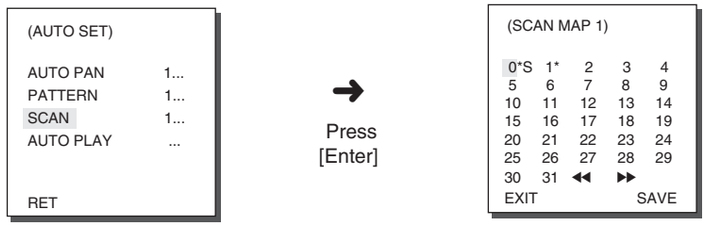


PATTERN can be set upto 3. Choose 1, 2, or 3 with the left or right key in the "PATTERN SET" and press [ENTER] to get into the PATTERN set up screen. From the moment "PATTERN 1 SET" is gone for 2 minutes, it memorizes the MANUAL movements and after 2 minutes it will return to a higher menu. If you want to finish set up before the 2-minutes ends, press [ENTER].

SCAN

SCAN sets the direction of PRESET movement during “SCAN” operation. The number of SCAN is up to 4 and each SCAN is able to allocate 32 PRESETs as a maximum.



If you enter the SCAN SET screen, PRESET MAP will be displayed. Move the cursor to the number marked * where PRESET is saved and press [ENTER] and S will appear and a PRESET will be included in SCAN.

AUTO PLAY

AUTO PLAY executes SCAN, AUTO PAN, PATTERN, and PRESET when there is no camera action after AUTO RETURN finishes.

AUTO RETURN

This menu sets up the time during which AUTO PLAY repeats.

AUTO PLAY

This function sets up the motion which will be repeatedly performed by SCC-C6405(P) whenever the time set by AUTO RETURN elapses. It covers SCAN, AUTO PAN, PATTERN, and PRESET setup.

PLAY NUMBER

This menu allocates a number to the motion set by AUTO PLAY. The numbers range from 1 to 4 for SCAN AND AUTO PAN, 1 to 3 for PATTERN, and 0 to 127 for PRESET.

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6. ALARM SET

It consists of 4 ALARM INPUTs and 3 ALARM OUTs.It can sense an ALARM input from exterior SENSORs and it performs with PRESET or PATTERN function and outputs the ALARM OUT signals.
The Alarm will be recognized only when its input lasts more than 150ms and the alarm operation time depends on the Preset Dwell time corresponding to the alarm and whether AUTO is involved.

ALARM PRIORITY SET

This sets the priority of the 4 ALARM inputs so ALARM can work corresponding to the priority.
The priority of the DEFAULT is ALARM1: 1, ALARM2: 2, ALARM3: 3, ALARM4: 4, MOTION: 5.
If the ALARM is working at the same time and the priority is the same, it will operate according to the DEFAULT priority. While the ALARM is working, it cannot detect MOTION.

ALARM IN SET

This sets the input TYPE to "NO" (Normal Open), "NC" (Normal Close), or "OFF" depending on the features of the SENSOR connected.

ALARM OUT SET

Each ALARM input corresponds to one of the 3 ALARM OUT.

AUTO SET

This menu designates what to do at the time of ALARM input. Once an alarm is given, the camera will shortly move to the PRESET position corresponding to the respective alarm as follows.
PRESET1 to ALARM1
PRESET2 to ALARM2
PRESET3 to ALARM3
PRESET4 to ALARM4
PRESET5 to MOTION
After DWELL TIME at a PRESET position, PATTERN or SCAN will be in action according to the AUTO SET setup.
Setup of OFF/1/2/3/HALF1/HALF2/FULL/SCAN1~4 is available.
OFF dues not perform PATTERN or SCAN after moved to PRESET and each menu has its own function as follows.
1 : PATTERN1,
2 : PATTERN2,
3 : PATTERN3,
HALF1 : Continuous operation of PATTERN1 + PATTERN2
HALF2 : Continuous operation of PATTERN2 + PATTERN3
FULL : Continuous operation of all the aboves
SCAN 1~4 : Scanning as set

AUX OUT CONTROL

This sets the ALARM OUT motion to continue or act only when the ALARM is working.
If it is set to OFF the ALARM OUT motion will operate only when the ALARM is working.
(Active "Low"), and if it's set to ON, the ALARM OUT will always operate regardless of the ALARM.

7. OTHER SET

PROPORTIONAL P/T

This function controls the PAN/TILT speed to the ZOOM magnification ratio during the manual operation of PAN/TILT. If you set PROPORTIONAL P/T to ON, the PAN/TILT speed will increase in the ZOOM WIDE mode and decrease in the ZOON TELE mode even in the same manual operation.

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TURBO P/T

This function doubles up the speed of PAN/TILT movement by manual operation of PAN/TILT. The speed may go up to 180°/sec(PAN).

AUTO CAL

This function turns on or off Auto Calibration. SCC-C6405(P) has the Auto Calibration function to improve the precision of LENS and PAN/TILT motor. You may set to OFF/6H/12H/18H/24H. Without user's key input for the time designated by the user, A.C. will appear on the screen while initializing LENS and PAN/TILT.

D-FLIP

When D-FLIP is off, TILT movement ranges from 0° to 90°.
When D-FLIP is on, TILT movement ranges from 0° to 180°.
When D-FLIP is on, images mirror vertically and horizontally in the area beyond TILT 90°.

CAM RESET

CAM RESET clears all the settings made so far and restores the factory default settings.
"CAMERA RESET?" message appears when you select CAM RESET. Select "CANCEL" to return to the menu setup display or select OK to restore the factory default settings.

❊ Be careful when performing a CAM RESET operation, as it deletes all setup values.

LANGUAGE

This function selects a language for MENU setup. Press UP/DOWN key to choose English, French, German, Spanish, or Italian, and the selected language will be applied to the full screen.

PASSWORD

This function selects or cancels the MENU setup password. Press [ENTER] at the state of PASSWORD ON, and the following screen will appear for password setup.

Press UP/DOWN/LEFT/RIGHT key to locate the cursor on a number and press [ENTER] for password setup. After you finish inputting the 4 digits password and the 2nd row of the 4 digits PASSWORD input screen, input the selected password again for reassurance.
If correct, the cursor will move to RET.
Press [ENTER] at RET, and the selected password will be saved, returning to the OTHER SET screen.
Default password is 0123.

8. SYSTEM INFO

This menu allows you to check S/W version, communication protocol, baud rate, and address of SCC-C6405(P).

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9. SHORT KEYS

SSC-1000 or SSC-2000 Controller supports the following short keys.

Function		Key
CAMERA SET...		
COLOR/BW	COLOR	[PRESET] + [1] + [2] + [8] + [Enter]
COLOR/BW	BW	[PRESET] + [1] + [2] + [9] + [Enter]
COLOR/BW	AUTO	[PRESET] + [1] + [3] + [0] + [Enter]
VIDEO SET...		
IRIS	WDR	[PRESET] + [1] + [3] + [1] + [Enter]
IRIS	ALC	[PRESET] + [1] + [3] + [2] + [Enter]
FOCUS MODE	AF	[PRESET] + [1] + [3] + [3] + [Enter]
FOCUS MODE	MF	[PRESET] + [1] + [3] + [4] + [Enter]
FOUCS MODE	ONEAF	[PRESET] + [1] + [3] + [5] + [Enter]
ALARM SET...		
AUX OUT CONTROL...		
OUT1	ON	[PRESET] + [1] + [3] + [6] + [Enter]
OUT1	OFF	[PRESET] + [1] + [3] + [7] + [Enter]
OUT2	ON	[PRESET] + [1] + [3] + [8] + [Enter]
OUT2	OFF	[PRESET] + [1] + [3] + [9] + [Enter]
OUT3	ON	[PRESET] + [1] + [4] + [0] + [Enter]
OUT3	OFF	[PRESET] + [1] + [4] + [1] + [Enter]
OTHER SET...		
PROPORTIONAL P/T	ON	[PRESET] + [1] + [4] + [2] + [Enter]
PROPORTIONAL P/T	OFF	[PRESET] + [1] + [4] + [3] + [Enter]
TURBO P/T	ON	[PRESET] + [1] + [4] + [4] + [Enter]
TURBO P/T	OFF	[PRESET] + [1] + [4] + [5] + [Enter]
D-FLIP	ON	[PRESET] + [1] + [4] + [6] + [Enter]
D-FLIP	OFF	[PRESET] + [1] + [4] + [7] + [Enter]
AUTO RETURN *1)		[PRESET] + [1] + [4] + [8] + [Enter]
AUTO CAL.		[PRESET] + [1] + [4] + [9] + [Enter]
CAM RESET		[PRESET] + [1] + [5] + [0] + [Enter]

Other keys than AUTO CAL. and AUTO RETURN, upon execution, shall be applied to the MENU setup process.

*1) The use of AUTO RETURN will be available only when the function equivalent to AUTO PLAY, a sub menu of AUTO SET has been built in.

* SCC-C6405(P) has two FANs inside for preventing overheating.
If FAN doesn't work properly, messages below will be displayed.
In those case, replace the FAN.

- CAMERA FAN ERROR !
  : This message is displayed when the FAN which is connected with camera of SCC-C6405(P) does not work properly.
- ALARM FAN ERROR !
  : This message is displayed when the FAN which is located bottom of SCC-C6405(P) does not work properly.

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Product specifications

SCC-C6405

NO	Items	Contents	Remark
1	Product Type	- Zoom lens single body WDR SmartDome CAMERA	
2	Power Input	- AC 24 ± 10% (60Hz ± 0.3Hz)	
3	Power Consumption	- 18W	
4	Broadcasting Type	- NTSC STANDARD COLOR SYSTEM	
5	Image Device	- 1/4 inch WDR compatible Exview HAD CCD	
6	Effective Pixels	- 768(H) x 494(V)	
7	Scanning Mode	- 525 Lines, 2:1 Interlace	
8	Scanning line Frequency	- Horizontal : 15, 734 Hz(INT) / 15, 750 Hz(L/L) - Vertical : 59, 94 Hz(INT) / 60 Hz(L/L)	
9	Synchronization Mode	- INT/LINE LOCK	
10	Resolution	- 480 TV LINES	
11	S/N Ratio	- 50dB (AGC OFF)	
12	Min. Object Illumination	- COLOR : 0.2 Lux (SENS UP X4) 0.005 Lux (SENS UP X160) - B/W : 0.07 Lux (SENS UP X4) 0.002 Lux (SENS UP X160)	
13	WDR	- 128	
14	Color Temperature	- ATW1/ATW2/AWC/MANUAL MODE (3200K, 5600K, R/B GAIN Court)	
15	Signal Output	- COMPOSITE VIDEO OUT : 1.0 Vp-p 75 ohms/BNC	
16	Lens	- one body; 22x Zoom lens - Focal length : 3.6 to 79.2 mm - Aperture : F1.6(Wide), F3.8(Tele) - Auto Focus	
17	PAN Function	- PAN range : 360° Endless - Preset Pan Speed : 400° /sec, maximum - Manual Pan Speed : 0.1° ~ 180° /sec (64Step)	
18	TILT Function	- TILT range : 0° ~ 180° - Preset Tilt Speed : 200° /sec, maximum - Manual Tilt Speed : 0.1° ~ 90° /sec (64Step)	
19	REMOTE CONTROL	- Tele/Wide(ZOOM), Near/Far(FOCUS), Iris Open/Close, Pan/Tilt, MENU RS-485 HALF/FULL Duplex, RS-422	
20	ALARM	- Alarm Inputs : 4 IN(5mA Sink) - Alarm Outputs : 3 OUT (Open collector : 2 DC24V 40mA Max, Relay : 1, NO, NC, COM 2A 30VDC, 0.5A 125VAC Max)	
21	Operation Temperature	- -10°C ~ +50°C	
22	Operation Humidity	- ~90%	
23	SIZE	- DOME : 147 (ø), - Outline : 159.6(ø) x 177(H)	
24	Weight	- 1.7Kg	
25	Lives of Main Parts	- Lens - Slip-ring - Fan	One Year(for use of Full AF) Rotated 10,000,000 Times 4.5 Years

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SCC-C6405P

NO	Items	Contents	Remark
1	Product Type	- Zoom lens single body WDR SmartDome CAMERA	
2	Power Input	- AC 24 ± 10% (50Hz ± 0.3Hz)	
3	Power Consumption	- 18W	
4	Broadcasting Type	- PAL STANDARD COLOR SYSTEM	
5	Image Device	- 1/4 inch WDR compatible Exview HAD CCD	
6	Effective Pixels	- 752(H) x 582(V)	
7	Scanning Mode	- 625 Lines, 2:1 Interlace	
8	Scanning line Frequency	- Horizontal : 15, 625Hz(INT) / 15, 625 Hz(L/L) - Vertical : 50 Hz(INT) / 50 Hz(L/L)	
9	Synchronization Mode	- INT/LINE LOCK	
10	Resolution	- 480 TV LINES	
11	S/N Ratio	- 50dB (AGC OFF)	
12	Min. Object Illumination	- COLOR : 0.2 Lux (SENS UP X4) 0.005 Lux (SENS UP X160) - B/W : 0.07 Lux (SENS UP X4) 0.002 Lux (SENS UP X160)	
13	WDR	- 128	
14	Color Temperature	- ATW1/ATW2/AWC/MANUAL MODE (3200K, 5600K, R/B GAIN Court)	
15	Signal Output	- COMPOSITE VIDEO OUT : 1.0 Vp-p 75 ohms/BNC	
16	Lens	- one body; 22x Zoom lens - Focal length : 3.6 to 79.2 mm - Aperture : F1.6(Wide), F3.8(Tele) - Auto Focus	
17	PAN Function	- PAN range : 360° Endless - Preset Pan Speed : 400° /sec, maximum - Manual Pan Speed : 0.1° ~ 180° /sec (64Step)	
18	TILT Function	- TILT range : 0° ~ 180° - Preset Tilt Speed : 200° /sec, maximum - Manual Tilt Speed : 0.1° ~ 90° /sec (64Step)	
19	REMOTE CONTROL	- Tele/Wide(ZOOM), Near/Far(FOCUS), Iris Open/Close, Pan/Tilt, MENU RS-485 HALF/FULL Duplex, RS-422	
20	ALARM	- Alarm Inputs : 4 IN(5mA Sink) - Alarm Outputs : 3 OUT (Open collector : 2 DC24V 40mA Max, Relay : 1, NO, NC, COM 2A 30VDC, 0.5A 125VAC Max)	
21	Operation Temperature	- -10°C ~ +50°C	
22	Operation Humidity	- ~90%	
23	SIZE	- DOME : 147 (ø), - Outline : 159.6(ø) x 177(H)	
24	Weight	- 1.7Kg	
25	Lives of Main Parts	- Lens - Slip-ring - Fan	One Year(for use of Full AF) Rotated 10,000,000 Times 4.5 Years

Cautions

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- This manual will be modified according to product enhancements.

Correct Disposal of This Product (Waste Electrical & Electronic Equipment)

(Applicable in the European Union and other European countries with separate collection systems)

This marking shown on the product or its literature, indicates that it should not be disposed with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.